## ABSTRACT OF THE DISCLOSURE

A method for measuring a steering angle of a steering shaft for a vehicle uses a first rotatable body that rotates together with the steering shaft at an r1 ratio and a second rotatable body that rotates together with the steering shaft at an r2 ratio. An absolute rotational angle of the first rotatable body,  $\Psi$ , can be expressed as  $\Psi'$  + i $\Omega$ , and an absolute rotational angle of the second rotatable body,  $\theta$ , can be expressed as  $\theta'$  + i $\Omega$ .  $\Psi'$  and  $\theta'$  are measured using an angle sensor having a measurement range of  $\Omega$ . To obtain the steering angle  $\Phi$  of the steering shaft, measurement values  $\Psi_{M}'$  and for  $\theta_{M}'$  of  $\Psi'$  and  $\theta'$  are obtained. A plurality of  $\theta$ 's corresponding to the  $\Psi_{M}'$  value are calculated from a relation between  $\Psi'$  and  $\theta'$  to yield a  $\theta_{C}'$ . By comparing the  $\theta_{M}'$  to the  $\theta_{C}'$ , an i-value of the first rotatable body is obtained. The obtained i-value is then used to obtain an absolute rotational angle  $\Psi$  of the first rotatable body. Finally, from a relation between  $\Psi$  and  $\theta$ , the steering angle  $\Phi$  of the steering shaft is obtained.